

Gulf of Mexico Harmful Algal Bloom Bulletin

Region: Texas

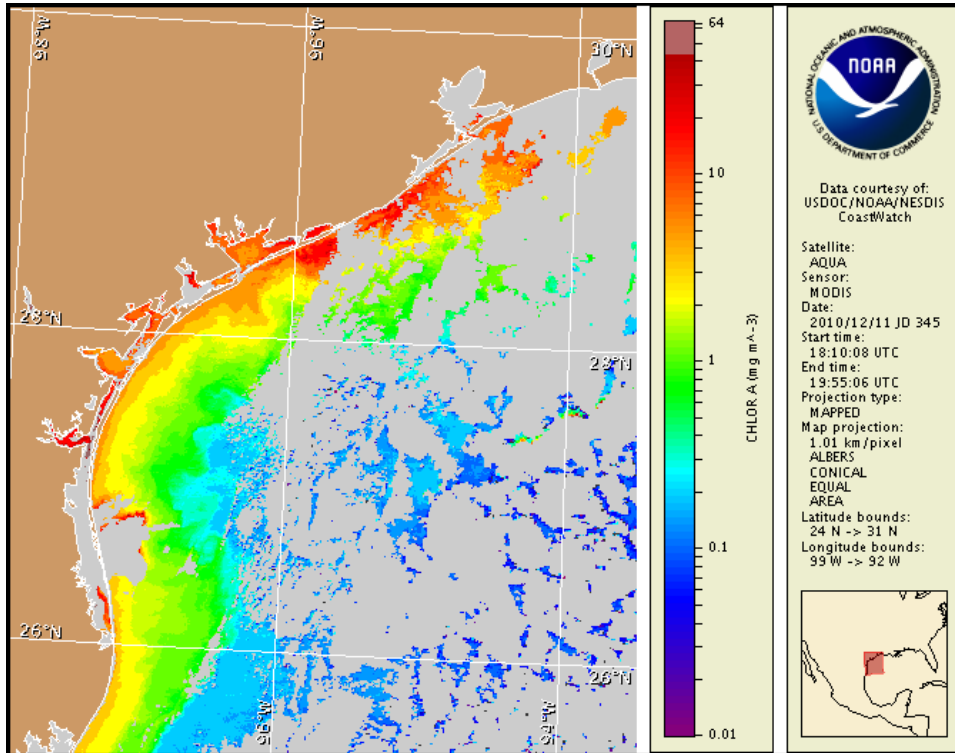
13 December 2010

NOAA Ocean Service

NOAA Satellites and Information Service

NOAA National Weather Service

Last bulletin: December 6, 2010



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 3 to 9 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://tidesandcurrents.noaa.gov/hab/habfs_bulletin_guide.pdf

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

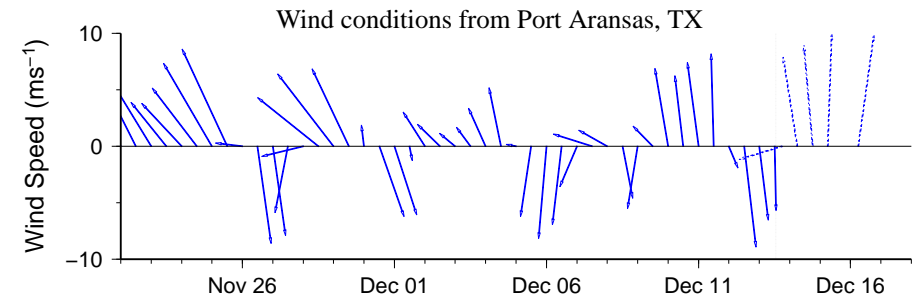
Conditions Report

There is currently no indication of a harmful algal bloom at the coast in Texas. No impacts are expected alongshore Texas today through Sunday, December 19.

Analysis

There is currently no indication of a harmful algal bloom along the coast of Texas. Recent imagery is partially obscured by clouds, limiting analysis. Elevated chlorophyll is visible in the imagery along much of the Texas coastline. Patches of elevated to high chlorophyll (5 to $>10 \mu\text{g/L}$) are visible along- and offshore from Cavalle Pass to Bolivar Roads Pass, including a patchy high chlorophyll feature ($>20 \mu\text{g/L}$) that is visible along- and offshore from East Matagorda Bay to Freeport. Imagery in this region will continue to be monitored. Patches of elevated chlorophyll (2-5 $\mu\text{g/L}$) are also visible south of Cavalle Pass, along- and offshore from Matagorda Island to South Padre Island. Elevated chlorophyll appears to be due to the resuspension of benthic chlorophyll and sediments as a result of strong winds over the past several days and is most likely not related to a harmful algal bloom. Forecast models indicate a potential maximum transport of 20km north along the coast from Port Aransas from December 11-16.

Derner, Kavanaugh

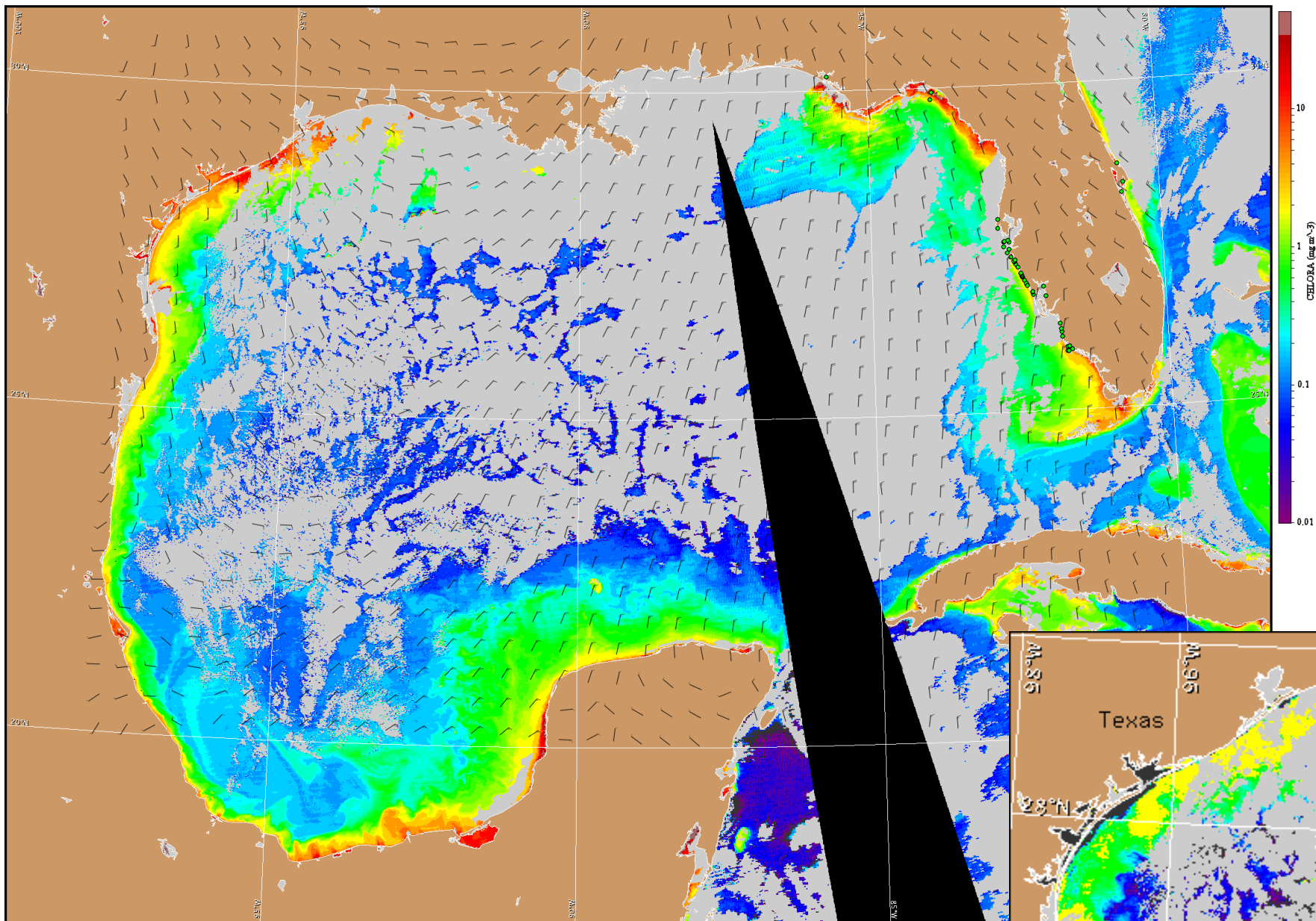


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts. Wind observation and forecast data provided by NOAA's National Weather Service (NWS).

Wind Analysis

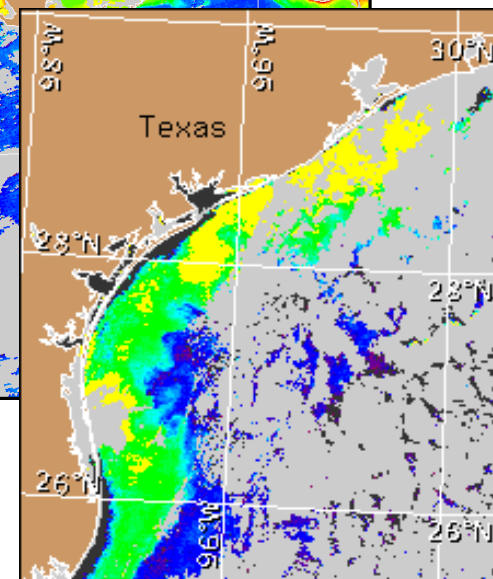
Northeast to east wind (5-15 kn, 3-8 m/s) today. Southeast to south wind (10-25 kn, 5-13 m/s) tonight through Thursday. North wind (10-20 kn, 5-10 m/s) Friday.

To see previous bulletins and forecasts for other Harmful Algal Bloom Bulletin regions, visit the NOAA Harmful Algal Bloom Operational Forecast System bulletin archive:
<http://tidesandcurrents.noaa.gov/hab/bulletins.html>



Satellite chlorophyll image and forecast winds for December 14, 2010 12Z with Cell concentration sampling data from December 3 to 9 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

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Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).